Django

* **Application Programming Interface (API)**

  An API is a slw intermediary that allow two or more applications to talk to each other.

* **API Types in terms of Release Policies :-**

  - **Private** - It can be used within the org.

  - **Partner** - It can be used within Business Partners.

  - **Public** - It can be used any third party Developers

* **How Web API Works:**

  - Client makes HTTP Request to API.
  - API will communicate to web appln / Database
  - Web appln / Database provided required data to API
  - API returns Data to Client.

Note- Json Data, XML Data

1

Django REST Framework :
- It is powerful & flexible toolkit for building Web APIs

- Authentication policies including packages for oAuth 1 and oAuth 2

- serializat^n that supports both oRM and non-ORM data sources.

- Extensive document^n & great community support

- Used & Trusted by internationally recognized companies including Mozilla, Red Hot, Heroku, and Eventbrite
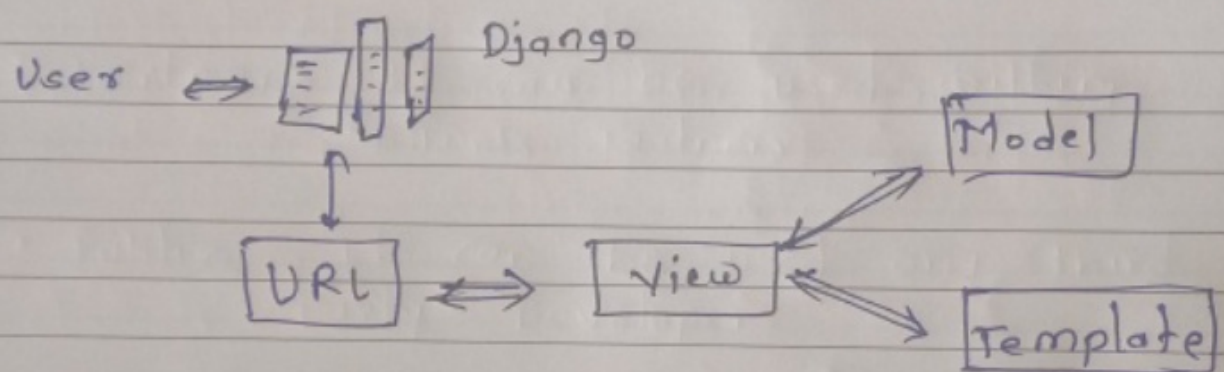
✦ **Requirements :**
- Python
- Django.

① **Install DRF**

pip install djangorestframework

② **Role of Django :**

- It is free & open source web appl^n framework written in Python

2

- Django offers a big collection of modules which you can we in your own projects

- Primarily, frameworks exist to save developers a lot of wasted time & headaches & Django is no different.

✴ <u>MVT</u> architecture of Django :

User ⟺ 📄📊📋 Django

URL ⟺ View → Model

View → Template

- The MVT (Model view Template) is a s/w design pattern

- The view is used to execute the business logic and interact with a model to carry data & renders a template

- There is no separate controller & complete appl^n is based on M, V & T.